

# Chemistry Report for Case # P-18-0279

## General

**Submitter:**Allnex USA Inc.

**Contact:** Daniel Liebowitz

**Contact Telephone No.:** (203) 834-0426

**TS No.:** CR18B5

**Chemist:** Masten, Bethany

**Contractor Support:** Y

**PV Init (kg/yr):** [REDACTED]

**PV Max (kg/yr):** [REDACTED]

**Binding Option:**

**Exposure-Based Review:** [REDACTED]

**Manufacture:**

**Import:**

**CAS Number:** [REDACTED]

**Chemical Name:** [REDACTED]

**Trade Name:**EBECRYL® 4820 radiation curing resins

**IES Order:** [REDACTED]

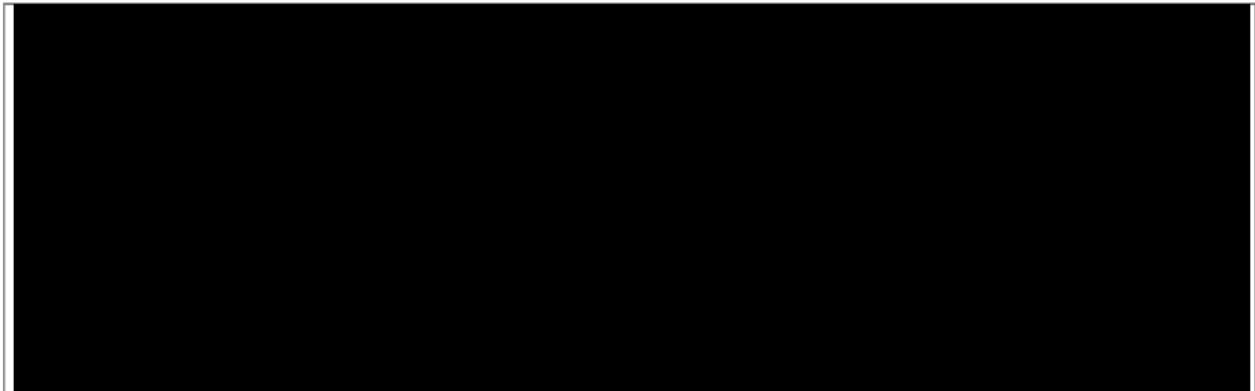
**Generic Name:**Substituted

heteromonocycle, polymer with substituted alkanediol and diisocyanate

substituted carbomonocycle, alkylene glycol

acrylate-blocked

## Chemical Structure



## Physical Chemical Properties

<b>Molecular Formula:</b> [REDACTED]	<b>Molecular Weight:</b> 2070.0
<b>% &lt; 500:</b> 0.0	<b>% &lt; 1000:</b> 0.79
<b>MP:</b>	<b>MP Estimate:</b>
<b>BP:</b>	<b>BP Pressure:</b>
<b>BP Estimate:</b> >400	
<b>VP (Torr):</b>	<b>VP Estimate (Torr):</b> <0.000001
<b>Water Solubility (g/L):</b>	<b>Water Soluble Estimate (g/L):</b> <0.000001
<b>Log P:</b>	<b>Log P Estimate:</b>
<b>Physical State — Neat:</b> Liquid (Est.)	<b>Physical State — Manuf:</b> NK: Import

**Physical State — Processing:** Solution: [REDACTED] PMN material, then Solution: [REDACTED] PMN material  
**Physical State — End Use:** Destroyed

## Additional Chemical Info

NAVG  
MW = 2070 with 0% < 500 and 0.79% < 1000 by GPC.  
[REDACTED]  
Submitted Properties: WS = Insoluble; Density = 1.092 g/cc.  
Estimated Properties: BP > 400 °C (High MW polymer); VP < 0.000001 torr (High MW polymer); WS < 0.000001 g/L (High MW polymer).  
Acrylate FGEW = [REDACTED]

## Uses

**Consumer Use?** No  
**Use:**

UV curable coating resin for paper substrates.  
[REDACTED]  
Analogues [REDACTED] are used as resins for UV-curable industrial coatings.  
Analogues [REDACTED] are used as coating resins for [REDACTED].  
**Other Uses:** Analogue [REDACTED] is used as a resin in [REDACTED] coating.

### Reaction Description

The PMN material is imported and no manufacturing information was provided. The reaction shown above was taken from the list of feedstocks on PMN page 5 of the PMN submission.  
[REDACTED]

### Pollution Prevention Analysis(P2 Analysis:)

None.

### Analogs

Analogues:  
[REDACTED]

### Comments/Telephone Log

Artifact	Update/Upload Time
[REDACTED]	[REDACTED]